

ASCE 150th Anniversary Follow Up News on Awards & Community & Educational Outreach Efforts



Colorado Section ASCE Wins 150th Anniversary Awards

All ASCE Sections and Branches were invited to submit applications for awards for 150th Anniversary activities to the National ASCE. The awards have been given by Zone, and the Colorado Section ASCE has come out on top in Zone III with the following awards:

- The Large Section Award goes to the Colorado Section ASCE.
- The Large Branch Award goes to the Northern Colorado Branch, Colorado Section ASCE.
- The Younger Members Group Award goes to the Colorado Section ASCE's Younger Members Group.

National President Tom Jackson will present the 150th Anniversary Awards at the upcoming Zone III Workshop for Section and Branch Leaders. Congratulations, Colorado Section ASCE!

Community Service: Volunteer for Rebuilding Day 2003

It is an honor and pleasure to announce that the Colorado Section ASCE is a 2003 House Sponsor for Rebuilding Together* Metro Denver and that our 2002 Volunteer Captain, Alecia Cope, and Skills Captain, Doug Jenevein, are prepared to take on these management responsibilities for Rebuilding Day, Saturday, April 26, 2003. Alecia is in charge of recruiting and organizing the Colorado Section ASCE Rebuilding Day volunteers. Doug is the Project/Construction Manager for the home site that will soon be assigned to us. Starting now, our captains will be doing all of the legwork necessary to make the Section's Rebuilding Day efforts a success.

For Rebuilding Day, 2002, the Colorado Section ASCE, with the welcomed participation of a team from the Colorado School of Mines ASCE Student Chapter, fielded 30 volunteers to make a home site of an elderly and disabled couple safe, warm and dry. Ask any of the volunteers and they will tell you that their efforts were most appreciated and brought them the satisfaction of helping some people in need.

Now it's time to recruit Colorado Section ASCE volunteers for this year's project. Please contact Alecia at (303) 988-4939, or acope@mullereng.com. Remember, you don't have to be "Tim the Tool Man" or "Bobbie the Builder." Each volunteer will have a useful assignment that suits him or her.

Educational Outreach: Volunteer for 2003 Colorado High School Bridge Building Contest

Each year, the Professional Engineers of Colorado (PEC) organizes, in cooperation with the US Bureau of Reclamation (USBR), the Colorado High School Bridge Building Contest. The contest is open to all high school students in the State. It is Colorado's premier engineering educational event that is held during National Engineers Week at the USBR Laboratory at the Denver Federal Center. The Colorado Section ASCE is one of the sponsors of this event. We will display our custom tabletop exhibit and make some gifts available to the participating students. We also want to field member volunteers to assist with the Saturday, February 22nd contest. Please sign up to help for any time that you can spend between 8 AM and 2 PM. Contact John Gormley, (303) 858-8008, gormleyjt@msn.com, or Taka Kimura, (303) 390-5861, kimura@pbworld.com.

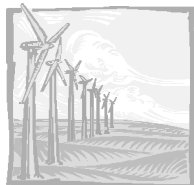
John Gormley, Colorado Section ASCE
(303) 858-8008, gormleyjt@msn.com



Joint Structural & Transportation Group Meeting

Dean Bradley, Felsburg Holt and Ullevig, and Kent Montgomery, PE, SE, Project Director, Figg Bridge Engineers, will give a presentation on the **Broadway Viaduct Replacement Project**. During a regular bridge inspection, the CDOT recognized that the existing Broadway Viaduct was deteriorating more quickly than previously noted. Specifically, it has received a sufficiency rating of 6 out of a possible 100. CDOT immediately began a program to design and secure funding to replace the viaduct. The project was evaluated and cleared through a Categorical Exclusion and initial reconstruction began in the fall of 2001. CDOT currently is constructing the first phase of a three phase reconstruction of the existing Broadway Viaduct. This initial phase will complete the southerly most **ard** of the viaduct. Once complete, southbound traffic will be removed from the existing viaduct and moved onto the new bridge. Elements of this construction are clearly visible as you drive in and around Broadway and the RTD park-n-ride with the curved piers that will support the bridge. Phase 2 of the viaduct replacement will remove the existing southbound bridge and complete the middle **brd** of the viaduct. Once Phase 2 is complete, existing northbound traffic will be moved onto this portion of the bridge. Phase 3 will follow soon after to remove the existing northbound bridge and complete the final **ard** of the new bridge and shift traffic to its final location. Construction on Broadway and the RTD park-n-ride will be completed as well. Phase 2 and 3 construction is dependent on annual funding from the Federal Government and local matches. Completion is expected to coincide with the completion of the T-REX project.

Environmental Group Meeting



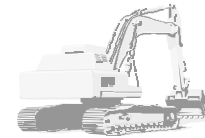
No February program had been scheduled as of newsletter press time. Contact either of the Environmental Group Co-Chairs directly or visit the Section's web page for updated information. The Co-Chairs are Harry Jong at 303-312-7077 and Mark Vanarelli at 303-864-9529. The Colorado Section ASCE's web page is at the URL <http://sections.asce.org/colorado>.



Water Resources Group Meeting

Bill DeGroot, PE, Chief, Floodplain Management Program, Urban Drainage and Flood Control District, will speak on **several flood hazard mapping initiatives** the UDFCD has completed in cooperation with the Federal Emergency Management Agency under FEMA's Cooperating Technical Partners Program. He will use PowerPoint and ArcView software to demonstrate the results of these initiatives and will present preliminary results of a pilot project to review requests for Letters of Map Revision (LOMR) and Conditional LOMR's.

Geotechnical Group Meeting



Gordon Revey, PE, REVEY Associates, Inc., Highlands Ranch, will give a presentation on **Risk Management and Design Methods for Safe Excavation of Rock Near Critical Structures**. In construction and mining work, situations occasionally occur where hard rock or concrete must be excavated at locations near critical structures or utilities. Fearing damage from blasting, contractors and engineers often explore the viability of using mechanical methods or expansive concrete to facilitate the excavation work. However, for moderate to large excavations, the prolonged duration and high cost of using these methods is often impractical. In these situations and under the right conditions, controlled blasting and blast-management methods can speed up the work and lessen costs. The process of determining whether or not blasting is practical is often complex, particularly when risks are high. This presentation includes a review of methodologies for evaluating and managing blasting risk. Blasting case histories demonstrating how these techniques were applied at three projects will be presented. In the first case, a cautious blasting program was developed to facilitate the removal of large rock cuts near new concrete bridge piers. The second case involved critical blasting to excavate a dry lake-tap connection between a tunnel and a shaft at the Southern Nevada Water Intake No. 2 project in Henderson, Nevada. The third case history describes how novel blasting methods were used to drop a 2,727,000 kg (6,000,000 lb) concrete caisson into rock by blasting beneath it at the Detroit Outfall No. 2 project in Detroit.



Colorado Section
2002-2003 Leadership Roster

PRESIDENT:
720-286-5762

Jeff Benson
jbenson@ch2m.com

VICE PRESIDENT:
970-498-5724

Roxann Hayes
rhayes@larimer.org

SECRETARY:
303-858-8008

John Gormley
gormleyjt@msn.com

TREASURER:
303-832-9091

John Valsecchi
valsecchi@pbworld.com

IMMEDIATE PAST PRESIDENT:
303-277-6620

Mike Glade
mike.glade@coors.com

Colorado Section ASCE Office

Rich Bogdanovich
303-758-1445
FAX 303-756-9777

P.O. Box 101085
Denver, CO 80250-1085
colorado.asce@attglobal.net

Section Web Page
<http://sections.asce.org/colorado>

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National Engineers Week Activities

Exploring Engineering and Technology

The Society of Women Engineers (SWE) invites female middle school students who are interested in science, math and technology to participate in the Exploring Engineering and Technology event, Monday, February 24, 2003, 9:00 AM - 1:00 PM at the Adam's Mark Hotel, Denver. This event is being held as part of National Engineers Week and will support the "Introduce a Girl to Engineering" Program. It is free to all participants, but space is limited. Registration includes breakfast and lunch. Registrations are due Monday, February 10, 2003, and will be granted on a first-come, first-served basis. Space is limited. Direct questions to Sandra Scanlon, P.E., SWE Rocky Mountain Section President FY03, 720-339-6350, 303.932.7687 FAX.

23rd Annual Colorado Engineers' Dinner

Reservations: Call PEC Office at 303-480-1160
Place: Double Tree Hotel, 32nd & Quebec
Date: Friday, February 21, 2003
Time: Reception at 6 PM, Dinner 7 PM
Cost: \$30.00 per person



Colorado Section
American Society of Civil Engineers
P.O. Box 101085
Denver, CO 80250-1085
(303) 758-1445

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